



CASE STUDY

Installation of the FIBRAIN HD Data Center system in Wrocław

High Density®

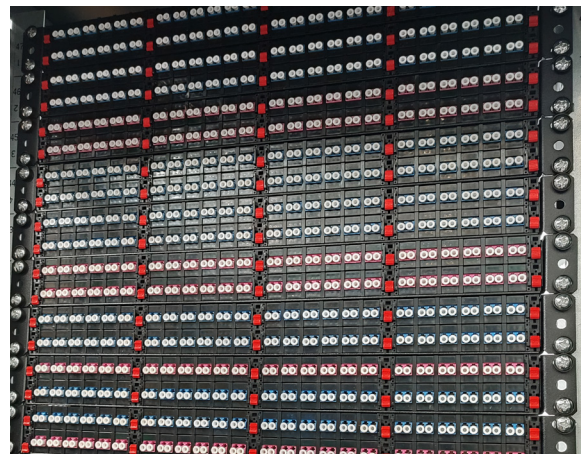
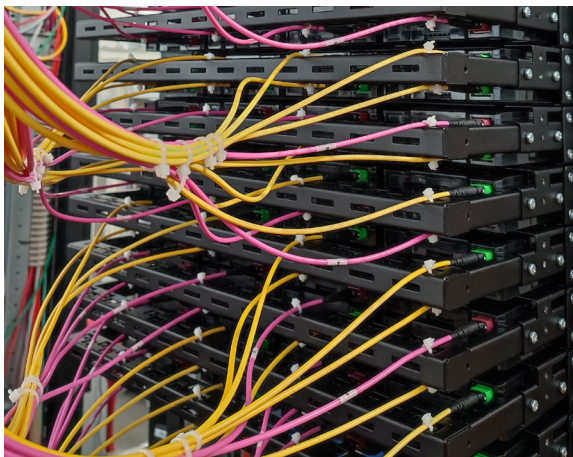
HD



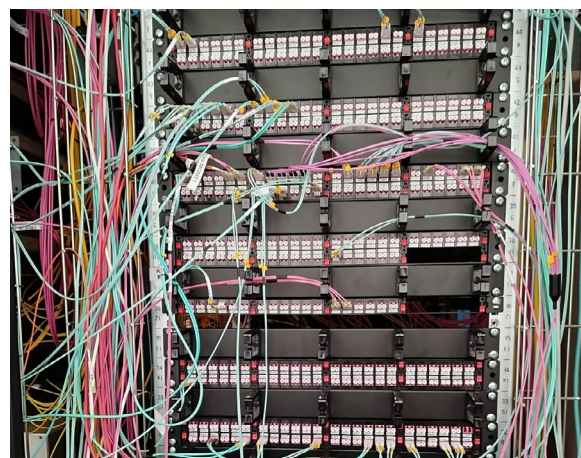
Installation of the FIBRAIN HD Data Center system in Wrocław.

Long-term cooperation, based on a thorough understanding of the needs and characteristics of the client's work environment, as well as on a flexible approach to the implementation of tasks and adaptation of solutions to specific requirements, has brought another positive reference for FIBRAIN.

As this project is confidential, the identity of the client is not disclosed. However, the results provide clear evidence of FIBRAIN's high competence in the most complex and demanding projects in the data center industry, confirming its ability to deliver innovative solutions at the highest level.



For more than two years, FIBRAIN has been providing modern and advanced high-density (HD) solutions for the Data Center in Wrocław, which proves its extensive experience and ability to adapt its offers to the dynamically changing needs of the market.



During this time, an impressive scope of work was completed, including the installation of more than 20,000 fiber optic links and the use of more than 40 km of fiber optic multipatchcords. The project required 200 1U panels and 1650 HD cassettes equipped with MTP connectors, highlighting the scale and complexity of the implementation.

FIBRAIN HD

Data Center Wrocław

The FIBRAIN HD (High-Density Structured Cabling System) is the perfect solution for places that demand high-density structured cabling. It is designed for network infrastructure in locations where maximum space utilization, high performance, and

flexibility in cable management are essential. These types of systems are particularly popular in data centres, server rooms and modern offices.

System components



HD Patch Panels (high-density patch panels)
Integrated modules for fast interconnection of network devices



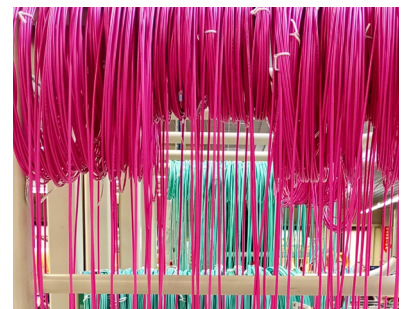
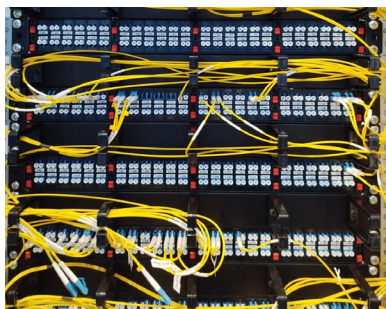
Pre-connected 'ready-to-use' cables
using MTP fiber optic connectors



Copper cables
compatible with the latest data transmission standards



Cable organizers
Special solutions for arranging cables in a neat and functional way



HD FIBRAIN system advantages:

1. Saving space in the Data Center

High port packing density allows installation of more cables per unit space (e.g., in rack cabinets), high-density patch panels (HD patch panels) that can support a large number of ports (192 LC ports in a 1U space).

2. Efficient infrastructure management

With MTP connectors for cables and the ability to switch them quickly, minimize downtime.

3. High transmission quality

The cables and components used meet data transmission standards, such as Cat.6A, Cat.7, and in the case of fiber optic networks, OM4, OM5 or OS2.

4. Scalability

Systems that are densely packed allow for future network expansion without replacing the entire infrastructure.

5. Reduced energy and cooling consumption

Thanks to their compact design, HD systems are optimized for airflow, which helps to reduce cooling costs in data centers.

Applications

- **Data centers**
Handling high volumes of connections between servers, switching devices and storage.
- **Offices and smart buildings**
Efficient infrastructure management in large corporate places.
- **Telecommunications**
Solutions for Nodal and Access Network Operators.

By using these systems, it became possible to achieve optimal performance and reliability, while reducing the need for space and the requirements for daily maintenance and operation.

Born from motivation, built on innovations.

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